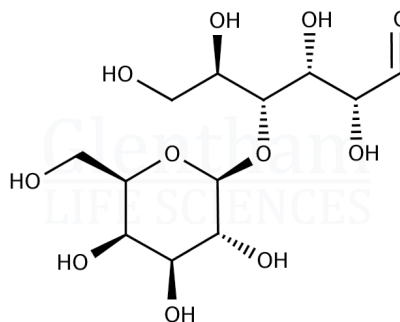


## Product Specification

Product Name	Lactose, anhydrous, Ph. Eur., USP grade
Glentham Code	GC1111
CAS Number	63-42-3
EINECS	200-559-2
MDL Number	MFCD00151251
Additional CAS	64044-51-5
Additional CAS	10039-26-6
Additional CAS	14641-93-1
Additional CAS	5989-81-1

Molecular Weight	342.30
Molecular Formula	$C_{12}H_{22}O_{11}$
Storage Temp.	+20°C



Property	Specification
Physical Description	White or almost white crystalline powder
Identification	According to Ph. Eur., USP
Solubility (10% in water)	Clear, colourless solution (boiling water)
Acidity or Alkalinity	≤ 0.4ml (of 0.1M NaOH)
Specific Optical Rotation	+54.4 - +55.9 ° (anhydrous substance)
Absorbance	≤ 0.04 (400nm)
	≤ 0.07 (270 - 300 nm)
	≤ 0.25 (210 - 220 nm)
Heavy Metals	≤ 5ppm
Water	≤ 1.0%
Loss on Drying	≤ 0.5%
Residue on Ignition	≤ 0.1%
Total Aerobic Microbial Count	≤ 100CFU/g
Total Combined Yeast and Mould Count	≤ 50CFU/g
E. Coli	Absent in 10g
Assay (GC)	≥ 99.5% (C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> )
Pharmacopoeia Specification(s)	Conforms to Ph. Eur., USP

Specification Version	- v1.1
Date Created	- 2024-12-12

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

This document was generated electronically and is therefore valid without signature. © Glentham Life Sciences Ltd, 2025